INTERNATIONAL SEARCH REPORT

▼T/US2004/033436

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16K11/074 F16K3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 701 934 A (KURAN CHRISTOPHER G ET AL) 30 December 1997 (1997-12-30) column 3, line 21 - column 8, line 39; figures 1-8	1,7,8
X	DE 37 20 207 A (PIEMONTESE RADIATORI) 23 December 1987 (1987-12-23) column 4, line 54 - column 8, line 16; figures 1-7	1
A	EP 1 293 712 A (SOLDI BARBARA) 19 March 2003 (2003-03-19) figures 1,2	1
A	EP 1 342 996 A (TECHEM DEV GMBH) 10 September 2003 (2003-09-10) figures 1-5	1

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 20 January 2005	Date of mailing of the international search report 07/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Authorized officer Heneghan, M

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